PABLO ABEHSERA-MORELL

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PROFILE

Researcher in acoustics with a background in music technology, with academic projects involving spatial audio and psychoacoustics. Recently obtaiend a Ph.D. at the d'Alembert Institute (CNRS - Sorbonne Université) in Paris, France, researching spatial auditory perception in the context of interactive and immersive virtual environments. Keen interest in room acoustics and auditory perception, with other interests including virtual acoustics and signal processing.

EDUCATION

PhD, Acoustics January 2023 - February 2026
IJLRA - Sorbonne Université *Paris, France*
Thesis title: Acoustic Rendering for Realistic Interactions in Mixed Realities.
Supervised by Dr. Brian F. G. Katz and Dr. David Poirier-Quinot.

MSc, Audio and Music Technology September 2021 - September 2022
University of York *York, United Kingdom*
Spatial Audio, Virtual Acoustics, Signal Processing, Audio Programming, Audio Interfacing, Project Management.

BSc (Hons), Music Technology and Audio Systems September 2017 - June 2021
University of Huddersfield *Huddersfield, United Kingdom*
Audio Production, Signal Processing, Psychoacoustics, Audio Programming, Microcontrollers, Sound Design.

SKILLS

Programming	Matlab, Python, C#, C++, Swift, C, HTML, JavaScript, CSS
Software	Max/PureData, Unity, REAPER/Logic Pro/Nuendo, ODEON, Juce, SketchUp
Other	Technical Report Writing, Listening Test Design, Statistical Analysis, Critical Listening
Languages	Spanish (native), English (fluent), French (B2)

EXPERIENCE

Research Engineer October 2022 - December 2022
IJLRA - Sorbonne Université *Paris, France*
Research in spatial auditory perception in the context of interactive and immersive virtual environments.

Soundlab Intern August 2019 - August 2020
Fraunhofer IIS *Erlangen, Germany*
One-year industrial placement. Testing of novel hardware and software, preparation of DAW sessions, MPEG-H content creation, listening test design and conduction, and support in daily studio tasks and maintenance.

PROJECTS

MSc Degree Thesis, *Automatic Binauralisation of Podcasts*
Research project in collaboration with industrial partner BBC R&D. A study of the perceptual impact of binaural rendering of different types of sound source within binaural podcast production, intended to support the development of a future automatic podcast binauraliser application.

BSc Degree Thesis, *Defining Salient Parameters that Affect Immersion in Binaural Music Production*
Adapted into an e-brief published in the AES 151st Convention as *Binaural Mixing of Popular Music*. A study of the perceptual impact of binaural rendering of different types of musical sources in popular music mixing.

Freelance Music Production
Production (recording, mix, master) for artists in Spain and France. Credited in a number of singles and an album.

MAIN PUBLICATIONS

P. Abehsera-Morell, D. Poirier-Quinot, and B. F. G. Katz, "Evaluation and prediction of perceived naturalness for source directivity with a visible virtual source," Journal of the Audio Engineering Society, (accepted).

P. Abehsera-Morell, D. Poirier-Quinot, and B. F. G. Katz, "Impact of Room Acoustic Mismatches on Conversational Dynamics in Virtual Conferencing: Preliminary Study," in Proceedings of 11th EAA Annual European Conference on Acoustics and Noise Control Engineering (Forum Acusticum / Euronoise), (Málaga, Spain) (2025 Jun.).

P. Abehsera-Morell, D. Poirier-Quinot, and B. F. G. Katz, "Perception of changes in source orientation-dependent reverberation for a visible virtual vocal source," presented at the 156th Convention of the Audio Engineering Society, 248 (Madrid, Spain) (2024 Jun.).

P. Abehsera-Morell, D. Poirier-Quinot, and B. F. G. Katz, "Projecting source directivity variations onto an existing binaural room impulse response," in Proceedings of the AES International Conference on Spatial and Immersive Audio, 37 (Huddersfield, UK) (2023 Aug.).

P. Abehsera-Morell, and H. Lee, "Binaural Mixing of Popular Music," presented at the 151st Convention of the Audio Engineering Society, 665 (Online) (2021 Oct.).

OTHER

P. Abehsera-Morell, P. Luizard, D. Poirier-Quinot, and B. F. G. Katz, "High-resolution measurement of voice directivity in the horizontal plane," presented at the 25th International Congress on Acoustics and 188th Meeting of the Acoustical Society of America (ICA/ASA), (New Orleans, United States) (2025 May).

P. Abehsera-Morell, P. Luizard, D. Poirier-Quinot, and B. F. G. Katz, "Analyse de la directivité horizontale des voix françaises à haute résolution," presented at the 17e Congrès Français d'Acoustique (CFA), (Paris, France) (2025 Apr.).

P. Abehsera-Morell, D. Poirier-Quinot, and B. F. G. Katz, "Perception des variations de la réverbération en fonction de l'orientation d'une source en réalité virtuelle," presented at the Journées Françaises de la Réalité Étendue (jf.XR), (Evry, France) (2024 Oct.).

P. Luizard, P. Abehsera-Morell, J. Daudré, S. D. Bellows, B. F. G. Katz, "Human talkers VS artificial heads: a comparison of their directivity in dense plane microphone arrays," presented at the 50. Jahrestagung für Akustik (DAGA), (Hannover, Germany) (2024 Mar.).

P. Abehsera-Morell, D. Poirier-Quinot, and B. F. G. Katz, "Auralisation de la directivité de la source dans des conditions réverbérantes," presented at the Journées Jeunes Chercheur·se·s en Audition, Acoustique musicale et Signal audio (JJCAAS), (Marseille, France) (2024 Mar.).

AWARDS AND GRANTS

Best Scientific Presentation at the Journée ED SMAER (150€), École Doctorale Sciences Mécaniques, Acoustique, Électronique et Robotique de Paris - ED 391, 2025.

EAA Travel Grant for Forum Acusticum - Euronoise (500€), European Acoustics Association, 2025.

ICA Young Scientist Conference Attendance Grant ($500), International Comission of Acoustics, 2025.

Summer Accelerator Award (£2000), Santander / University of York, 2022.

Music Technology and Audio Systems Bursary (£1000), University of Huddersfield, 2018/2019/2021.

SUPERVISION

Andrea Carbajo Rebollo, *Towards a Generalised Spatial Metric for IACC using 3D RIRs*, M2, 2025.